

Diagnostic connector PG/45° Fast Connect

Function

The PG/Service interface serves as feedback-free measuring point for measurements with PROTest II XL/PROFI-TM Professional and PB-IN-spektor® NT can also be used as programming interface. The plug is completely shielded by the metal-coated casing.

The plug for the terminating resistor that is accessible from outside, disconnects the outgoing segment when being in ON position.

The design meets the Fast Connect requirement.

The integrated 4 LEDs (Power, Tx/D, Termination, Error) serve for a quick diagnosis of the bus status. With the Error LED, for example reflections and missing terminating resistors are signalled.

Because of the very space-saving routing of the PROFIBUS line (45° cable outlet) this connector can also be used in densely structured control cabinets.

Bus connection

- 9-pin sub-D interface
- Insulation piercing terminal (suitable for Fast Connect cable)
- 45° cable outlet

Electrical parameters

- Terminating resistor: integrated, can be switched with a sliding switch from outside
- Baud rate: 9.6 kbps to 12 Mbps
- Supply voltage: 4.75 to 5.25 VDC
has to be provided by each PROFIBUS user (Pin 5 GND, Pin 6 +5V)
- Current drain: 10 ... 30 mA
- Diagnostic display through LED status

Ambient conditions

- Operating temperature: -20 °C to +75 °C
- Industrial protection: IP20

Design

- Dimensions (H x W x D): 61 x 15,8 x 53 mm
- Interface: 9-pin sub-D
- Weight: approx. 80 g
- Casing: zinc die cast
- Max. fastening torque: 0,02 Nm

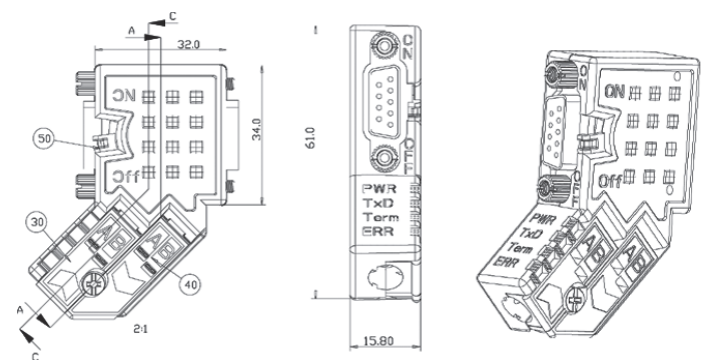
Status display for diagnostic function

| Switch ON/OFF | PWR Green | TxD Green | Term Green | ERR Yellow | Description |
|---------------|-----------|-----------|------------|------------|---|
| x | • | x | x | x | Power is OK (+5V ±5%) |
| x | ✱ | x | x | x | Power is out of (+5V ±5%) |
| x | ✱ | x | x | ✱ | Short-circuit of bus wire possible |
| X | X | ○ | X | X | No bus activity of participant |
| X | X | ✱ | X | X | Bus activity of participant |
| X | X | • | X | X | Bus activity, RTS (pin 4) of RS485 is not connected |
| OFF | X | X | ○ | X | Termination is switched off |
| OFF | X | X | ✱ | X | Internal terminating resistor faulty |
| ON | X | X | • | X | Termination is activated |
| X | X | X | X | ○ | No errors detected |
| OFF | X | ✱ | ○ | • | Bus is not terminated |
| OFF | X | ○ | ○ | • | Bus is open |

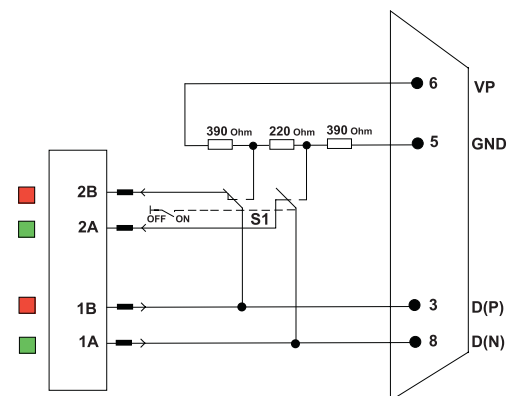
ON: • OFF: flashing (5Hz): extraneous: x



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Engineering drawing



Functional diagram

CE mark

Plugs are passive components and are subject to the CE mark system pursuant to EU Directives.

Ordering details

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Art. No.

110050007